PHASE I BOOK EXPLOITATION

SOV/6320

Pogorelov, Aleksey Vasil'yavich

- Tsilindricheskiye obolochki pri zakriticheskikh deformatsiyakh. [ch.] 3: Krucheniye (Post-Buckling Behavior of Cylindrical Shells. pt. 3: Torsion).Kharikov, Izd-vo Kharikovskogo univ., 1962. 71 p. 3000 copies printed.
- Resp. Ed.: Ya. P. Blank, Professor; Ed.: T. M. Kurilova; Tech Ed.: G. P. Aleksandrova.
- PURPOSE: The book is intended for a broad circle of readers familiar with fundamentals of the shell theory and differential geometry. It can be useful to designers, students, and scientific workers in the field of shell design.
- COVERAGE: The post-buckling behavior and equilibrium of a thin cylindrical shell subjected to torsion is analyzed by a method different from that used by other authors. Particularly, the critical loads are determined. This book is a continuation of

Card 1/5

two previous publications of the author under the same title. The buckling process is viewed as a geometric flexure and as a development of the wave-forming process on the shell surface. No personalities are mentioned. There are four Soviet references to the contents: CABLE OF CONTENTS: Ch. I. Formulation of the Problem, Investigation Method, and Results Ch. II. Buckling of a Cylindrical Shell under Torsion 1. Equation for Lateral deflections of a cylindrical shell at the instant of buckling 2. Upper critical load 3. Some empirical data. Conception of the lower critical	ost-Buckling Behavior (Cont.)	sov/6320
Ch. I. Formulation of the Problem, Investigation Method, and Results Ch. II. Buckling of a Cylindrical Shell under Torsion 1. Equation for Lateral deflections of a cylindrical shell at the instant of buckling 2. Upper critical load 3. Some empirical data. Conception of the lower critical load Ch. III. Special Isometric Transformation of a Cylindrical Surface 1. Circumscribing of a Z surface isometric to a cir-	two previous publications of the author und The buckling process is viewed as a geometr a development of the wave-forming process No personalities are mentioned. There are	LLA CHALL BUTINCE.
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	Surface Surface isometric Circumscribing of a Z surface isometric	ic to a cir-
Card 2/5		

PHASE I BOOK EXPLOITATION

sov/6322

Pogorelov, Aleksey Vasil yevich

- Tsilindricheskiye obolochki pri zakriticheskikh deformatsiyakh [ch.] 1: Osevoye szhatiye (Post-Buckling Behavior of Cylindrical Shells. pt. 1: Axial Compression). Khar'kov, Izd-vo Khar'kovskogo univ., 1962. 300 copies printed.
- Resp. Ed.: Ya. P. Blank, Professor; Ed.: T. M. Kurilova; Tech. Ed.: T. M. Smilyanskaya.
- PURPOSE: The book is intended for a broad circle of readers familiar with fundamentals of the shell theory and differential geometry. It can be useful to designers, students, and scientific workers in the field of shell design.
- COVERAGE: The post-buckling behavior and equilibrium of an axially compressed thin cylindrical shell is investigated by a method different from that used by other authors. Particularly, the value of the lower critical load is determined.

Card 1/#

PHASE I BOOK EXPLOITATION

SOV/6321

Pogorelov, Aleksey Vasil'yevich

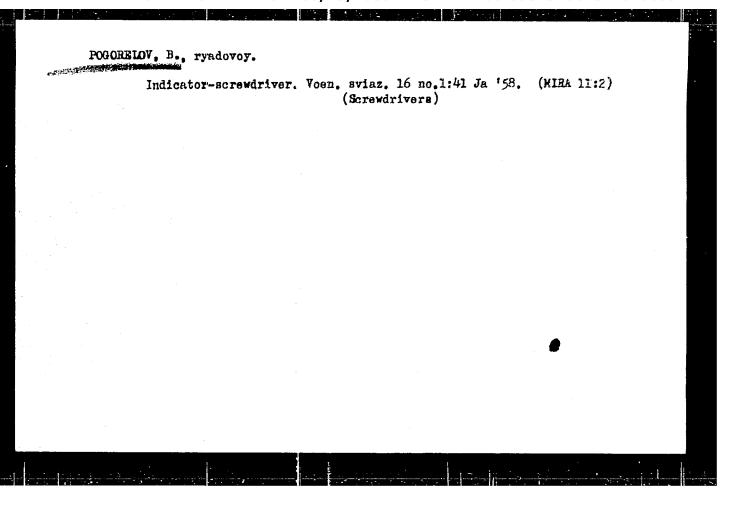
- Tsilindricheskiye obolochk: pri zakriticheskikh deformatsiyakh [chast' 2]: Vneshneye davleniye (Post-Buckling Behavior of Cylindrical Shells. pt. 2: External Pressure). Kharkov, Izd-vo Khar kovskogo univ., 1952. 60 p. 3000 copies printed.
- Resp. Ed.: Ya. P. Blank, Professor; Ed.: A. N. Tret'yakova; Tech. Ed.: G. P. Aleksandrova.
- PURPOSE: The book is intended for a broad circle of readers familiar with fundamentals of the shell theory and differential geometry. It can be useful to designers, students, and scientific workers in the field of shell design.
- COVERAGE: The post-buckling behavior and equilibrium of a thin cylindrical shell under external pressure is analyzed by a method different from that used by other authors. Particularly, the lower critical pressure is determined. This book is a continuation

Card 1/47

of a previous publication of the author on post-buckling of cylindrical shells (Cont.) of a previous publication of the author on post-buckling of cylindrical shells under sxial pressure. The buckling process viewed as a geometric flexure and as a development of the wave forming process on the shell surface. No personalities are metioned. There are no references.	y - is e -
TABLE OF CONTENTS: Ch. 1. Formulation of the Problem, Investigation Method, and Results Ch. 2. Buckling of a Cylindrical Shell Under External Pressure 1. State of elastic equilibrium taking place in regular-type buckling 2. Upper critical load 3. Some empirical data	3 7 8 10 14
Card 2/	

POGORELOV, Aleksey Vasil'yev.ch; BLANK, Ya.P., prof., otv. red.; TRET'YAKOVA, A.N., red.; ALEKSANDROVA, G.P., tekhn. red.; KURILOVA, T.M., red.; SMILYANSKAYA, T.M., tekhn. red.; ALEKSANDROVA, G.P., tekhn. red.

[Cylindrical shells at supercritical deformations]TSilindricheskie obolochki pri zakriticheskikh deformatsiiakh. Khar'kov,
Izd-vo Khar'kovskogo univ. Vol.1.[Axial compression]Osevoe
szhatie. 1962. 51 p. Vol.2.[External pressure]Vneshnee davlenie.
1962. 60 p. Vol.3.[Torsion]Kruchenie. 1962. 71 p. (MIRA 16:1)
(Elastic plates and shells)



BOYKO, Yu.A., inzh.; DOBROKHOTOV. V.I., inzh.; KISEL'GOF, M.L., kund. tekhn.nauk; PATYCHENTO, V.S.. inzh.; POGORELOV. B.F., inzh.; TARELKIN, M.F., inzh.

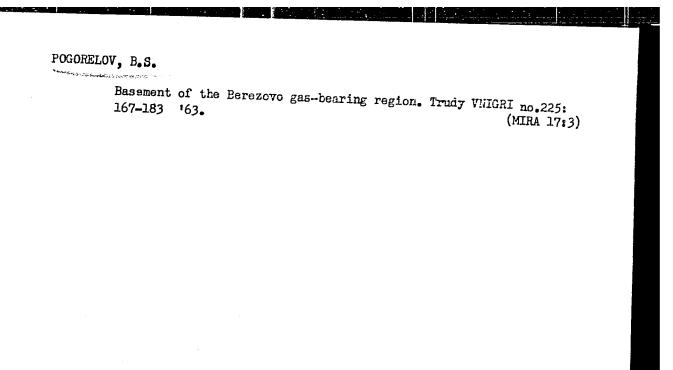
Burning of lignite with a high moisture content. Elek. sta. 36 no.2:8-12 F '65. (MIRA 18:4)

POGORRIOV, P.F., insh.

Lifting a 64-ton drum with a bridge crane of 30/5-ton capacity. Blek.sta. 31 no.5:75-78 My '60.

(Cranes, derricks, etc.)

(Granes, derricks, etc.)



KARCCODIN, Yo.M.; HIMAROGINIT, V.M.; HOURELON, B.C.

New Good on the structure and absolute age of fold pagement in the morthwestern part of the Mest Siberian Fraim. Not. 1 geoffer. (MIRA 18:8)

1. Mealitet geologid i geoffeik! Sibbrekogo otdeleniya AN SESR, Novosibirak i Tyurenshore geologicheskuye upravlaniya.

KOSOY, A.G., inzh.; <u>PCGOPELOI.</u> B.V., master

Design of an automatic chamber pump. TSement 30 no.4:16-17

J1-Ag '64. (MIRA 17:11)

1. Semipalatinskiy tsementnyy zavod.

BR

PHASE I BOOK EXPLOITATION

80v /5927

Pogorelov, Dmitriy Alekseyevish

Teoriya keplerovykh dvizheniy letatel'nykh apparatov (Theory of Keplerian Motion of Bodies in Flight) Moscow, Fizmatgiz, 1961. 106 p. 10,000 copies printed.

Ed.: V. I. Levantovskiy; Tech. Ed.: Ye. A. Yermakova.

FURPOSE: This book is intended for those readers interested in orbital flight around the earth and spaceflight.

COVERAGE: This book is intended to meet the need for a text on the theory of Keplerian motion. Attention is given to the following: properties of Keplerian motion, derivation of the basic relations between the characteristics of Keplerian motion in their application to the motion of spaceships in cosmic flight; derivation of relations connecting the trajectory parameters with the initial conditions of motion; magnitude and direction of flight velocity; angular distance and flight time for any running point of motion;

Card 1/4

BERNSHTEYN, N.D.; GOLOD, I.S.; GOLOSINSKIY, S.Ya.; ZAYTEV, A.N.; POGORELOV, E.M.; SMIRNOV, S.V.; SHAMSHTEYN, M.G.; SHMAKOV, A.G.

23KTK-1 motion-picture contact printer set. Tekh.kino i telev. 4 no.10:10-19 0'60. (MIRA 13:10)

1. TSentral'noye konstruktorskoye byuro Ministerstva kul'tury SSSR i Vsesoyuznyy nauchno-issledovatel'skiy kinofotoinstitut, Laboratoriya obrabotki tsvetnykh fil'mov.

(Motion-picture photography--Equipment and supplies)
(Color photography--Printing processes)

		Boyye maning; shornit states e novyth machinath, socterath, spanest apparatath socialists and ministration projects at the section of articles on Ber 1956-1954 at (for Machinas) collection of Articles on Ber machines interes and Apparatus Made in English Plants From 1856 to 1953 (Annual Englishment Englis	1 P.1. Zanga; Scientific Eds. 1 V.A. Bulgakov (Chief Englisses, tow Electrosebanical Plant; S.A. Vorob'yev (Candiste of Asia Saismose, Docent), L.A. Shubento-Shubin (Chief Methisses, Eds. Stiences, Docent), L.A. Shubento-Shubin (Chief Methisses, Eds. English Plant, and Corresponding English Parks. SER Asiacony of Science); Ed.; Ye.10. Donatoy; Yeah.	PURPOUR: This solisation of articles is to acquaint the reader with the latest developments and attainments of the Khar'kev machinery manufacturing industry during the 1956-58 period.	COVERAGE: The book, prepared in the form of a descriptive estains, presents the latest information on machinery and equipment shanks ambulantured by Indrikov plants from 1956-50, a detailed description at a given of the Callowing machines and equipments steam tweltons, reserved.	Leemedites, machine tools including unit setsiacuting machine teels, erresyror, road brightding machinery, electric power generacy, and electrical and electronic instruments. Numerous photographs et the show-listed machinery and equipment ere included in the batt. He personalities are antitoned. There are no feerence.	Sands of CONTESTS: Sangs, P.J., Director of the Machinery Manufacturing Division of the Darkor eblast Committee of the Universals Committee	A.I., Wise Chairman of the Sovnarkhor of the Kharleev mas Administrative Region. Hew Technology as a Powerful for the Growth of Labor Productivity	Card 2/6	New Machines; Collection of Articles (Cent.) 807/7636	C. Kernis, I.d., Chief Designer at the "Serp i melot" Plant, Standardized Diseal SWD	L. Stepunin, 1.M., Directer of the Engrisor Machine-tool	A Parke, Mi.o. Director of the Dar'iger Small Mais Meaniss- Teel Plant, and Sto. Shvartamin, seasatant to the Chief Designer. Small Unit Meaniss Tools		Trinchenko, P.3., Director of the "Granyy Octyber" Backingry Empirication Planta Planta Froductive Machines For the Construction Materials Industry Productive Machines	Ė	Lagrinor, S.I., Director of the Plant for Road-building. Mandacture of Read-building Rectinery in	Card A/6	Contract and contract to the contract of the c	
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POGCRELOV. G.: TROITSKIY, N.: IVANENKO, I.: VASIL'YEVA. V.: VIKHROV, P.

Old shortcomings in the new equipment. Okhr.truda i sots.
strakh. no.12:29-30 D '59. (MIRA 13:4)

1. Tekhnicheskiye inspektora Moskovskogo oblastnogo soveta
profsoyusov.

(Moscow—Textile industry—Hygienic aspects)

VASIL'YEVA, V.; TROITSKIY, N.; POGORELOV, G.; IVANENKO, I.

Instruction on industrial hygiene. Okhr.truda i sots.strakh. 5 no.1:31-32 Ja '62. (MIRA 15:2)

1. Tekhnicheskiye in:spektora Moskvskogo oblastnogo soveta profsoyuzov.

(Sai'ety education, Industrial)

POGORELOV, G.; IVANENKO, I.; TROITEKIY, H.; VIKHROV, P.; VASIL'YEVA, V.

Discussing the draft of the Basic Principles of Labor Law of the U.S.S.R. and the Union Republics. Okhr. truda i sots. strakh. 3 no.3133 Mr 160. (MIRA 13:7)

1. Tekhnicheskiye inspektora Moskovskogo oblastnogo soveta profsoyuzov. (Lakr laws and legislation)

KOZLOVA, Mariya Pavlovna; KUTANIN, A.F., retsenzent; POGORELOV,
G.I., retsenzent; TRUTNEV, M.M., retsenzent; SOKOLOVA,
V.Ye., red.

[Safety measures and labor protection in enterprises of the woolen.industries] Tekhnika bezopasnosti 1 okhrana truda na predpriiatiiakh sherstianoi promyshlennosti. Moskva, Izd-vo "Legkais industriia," 1964. 125 p. (MIRA 17:7)

YAKOVLEV, M.F.; VASIL'YEVA, V.A.; VIKHROV, P.P.; IVANGNKO, I.P.;
POGORELOV, G.I.: TROITSKIY, N.L.

General inspection of the work organization level in factories. Tekst.prom. 20 no.6:51-53 Je '60.

(MIRA 13:7)

1. Machal'nik podotdela organizatsii truda Mosoblsovnarkhosa (for Yakovlev). 2. Tekhnicheskiyzinspektora Moskovskogo otdeleniya soveta profsoyusov pri obkome profsoyusa rabochikh tekstil'noy i legkoy promyshlennosti (for all except Yakovlev).

(Moscow Province—Textile factories)

MAKS IMOVA, O.P., kand. tekhn. nauk; NIKONOROVA, A.I.; POGORELOV, G.K.

Effect of deformation on the rate of isothermal martensite
transformation in iron-nickel-manganese alloys. Probl. metalloved.

(Deformations (Mechanics) (MIRA 11:4)
(Iron-nickel-manganese alloys-Metallography)

MAKSIMOVA, O.P., kand.tekhn.nauk; NIKONOROVA, A.I.; POGORELOV, G.K.

Bifect of hot plastic deformation on the kinetics of martensite transformation in high nickel alloy steels. Probl. metallowed. i
fiz. met. no.4:198-204 '55.

(Bickel steel--Metallography) (Deformations (Mechanics)

(Martensite)

Martensite)

LEVITINOV, S.D., dotsent; POLYAKOV, G.V., inzh.; ASTRAKHANTSEV, N.Ya., inzh.; POGORELOV, G.M., inzh.

ALBERTAR AND STATE OF THE STATE

Recuperative braking on commercial electric locomotives in openpit mines. Izv. vys. ucheb. zav.; gor. zhur. 6 no.4:122-135 163.

1. Chelyabinskiy politekhnicheskiy institut. Rekomendovana kafedroy elektroprivoda i avtomatizatsii promyshlennykh ustanovok.

(Mine railroads-Brakes)

AUTHOR:

Pogorelov, I.

84-58-6-16/59

TITLE:

Training of Young Pilots (Obucheniye molodykh pilotov)

PERIODICAL:

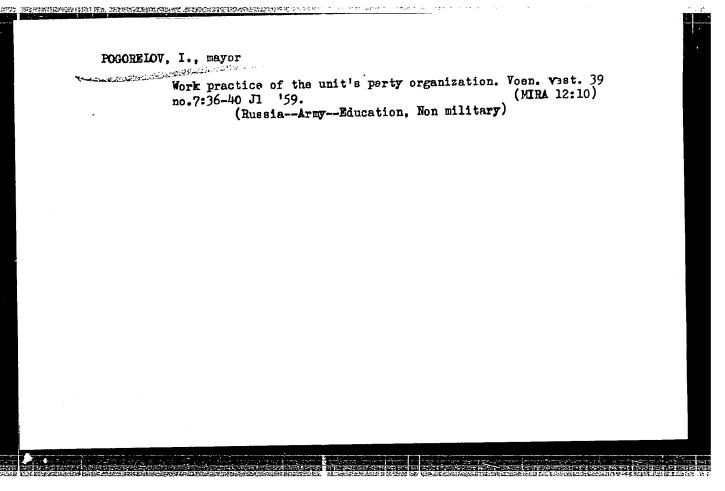
Grazhdanskaya aviatsiya, 1958, Nr 6, p 13 (USSR)

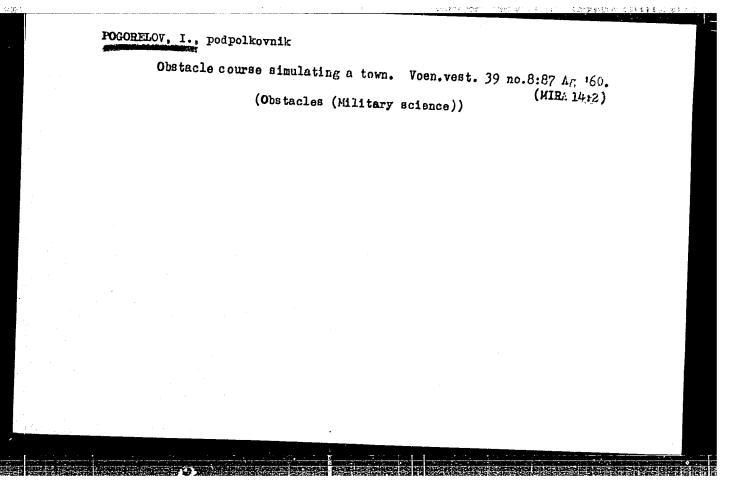
ABSTRACT:

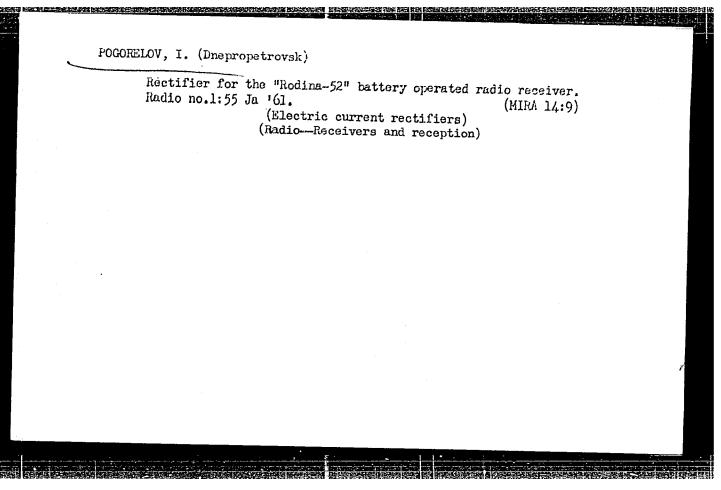
The article deals with the practice of introduction training of young pilots in an unidentified operational unit of the Aeroflot. Discipline is stressed as the basic factor in maintaining safe performance. A prolongation of the introduction training is advocated, as well as a more gradual assignment of difficult flights in the initial period of service.

1. Pilots--Training--USSR

Card 1/1







ZEMSKOV, P.I., dotsent; POMOREIOV, I.D.; YAKUSHINA, Ye.N.

Soldering aluminum parts. Mashinostroitel' no.7:38-39 Jl 162.

(Aluminum-Welding)

(MIRA 15:7)

ZEMSKOV, P.I.; POGORELOV, 1.D.; KHARCHENKO, Ye.N.; YAKUSHINA, Ye.R.

Devices for measuring the hardness of shaped parts. Stan. 1 instr.
36 no.4237-38 Ap '65. (MIRA 18:5)

ZEMSKOV, P. I.; POGORELOV, I. D.

Investigating the wear of piston rings made of high-strength cast iron in moter-vehicle engines. Avt. prem. 28 no.9:30-33 S 162. (MIRA 15:10)

1. Khar'kevskiy saved "Serp i melet".

(Pisten rings-Testing)

POGORELOV, I.D., inzh.; ZEMSKOV, P.I., kand.tekhn.nauk

Cold electric-arc welding of cast iron. Izv.vys.ucheb.

sav.; mashinostr. no.2:146-152 '59. (MIRA 13:3)

1. Khar'kovskiy institut inzhenerov komzunal'nogo stroitel'
stva i Khar'kovskiy zavod "Serp i molot".

(Electric welding)

ZEMSKOV, P.I., inzh.; POGORELOV, I.D., inzh.; YAKUSHINA, Ye.N., inzh.; KHARCHENKO, Ye.N., inzh.

Welding and soldering during the repair of AL10V aluminum alloy parts. Svar. proizv. no.8:40-41 Ag '63.

(MIRA 17:1)

1. Khar'kovskiy zavod "Serp i molot".

NEW TRANSPORTED BY SERVICE AND SERVICE AND

ZEMSKOV, P.I., dotsent, kand.tekhn.nauk; POGORELOV, I.D., inzh.

Experience in welding and soldering aluminum parts at the "Serp i Molot" Plant in tharkov. Izv.vys.ucheb.zav.; mashinostr. no.7: 89-95 '59. (MIRA 13:6)

1. Khar'kovskiy institut inzhenerov kommunal'nogo stroitel'stva.

(Electric welding) (Solder and soldering)

\$/145/60/000/003/008/010 D221/D301

AUTHORS:

Zemskov, P.I., Candidate of Technical Sciences, Docent

and Pogorelov, I.D., Engineer

TITLE:

Comparative data on antifrictional properties of

certain plastics

PERIODICAL:

Izvestiya vysshikh uchbenykh zavedeniy. Mashino-

stroyeniye, no. 3, 1960, 77 - 81

TEXT: The Central Factory Laboratory at the "Serp i molot" plant in Khar'kov investigated antifrictional properties of plastics. Specimen bushes from normal caprone, and also caprone with 3-5 % of an graphite admixture as well as tekstolite, voloknite and fenoplast were tested. The inserts worked with a steel shaft, cT-45 (st-45), R_c - 60 and H_b - 170, and a high strength cast iron, R_c-40, H_c - 170. Brown, babbitt and cast iron bushes are tested for comparison. The purpose was the study of the effect of speed, load, lubricant, material and hardness of shaft on the coefficient of friction. Tests were carried out on an Miv! (MI) machine. The wear on

Card 1/3

Comparative data on antifrictional ...

S/145/60/000/003/008/010 D221/D301

bushes was measured by analytical balance. The surface of rollers which imitated the shaft was ground. Hardened and untreated rollers were employed. The lubricant was formed by Industrial noye (Industrial) 20, AK-10 and An-14 (DP-14) oils and nepccommaon AW (perssolidol ASh) grease. The minimum wear was exhibited by caprone, especially when having 3 - 5 % graphite additive, Q = 0.5 μ and Q = 0.1 - 0.2 μ respectively. The par for other plastics was 4 - 5 times greater. This amounted to 2.5 μ for bronze and babbitt bushes and 10 µ in the case of cast iron insert. The caprone with graphite indicated best antifrictional properties, but the minimum friction torque is shown by babbitt. This torque has a marked tendency to rice at the beginning of running-in of caprone and then falls again The friction coefficient of caprone depends on load and speed, as indicated by graphs. It is highest at low loads. The wear of caprone inserts increases with the hardness of shaft. Cast iron shaft exhibits a smaller friction which is apparently due to greater porosity of former and also on account of lubricating properties of its graphite. The friction in caprone is lower when AK-10 oil is used than when lubricating with "Industrial 20". The minimum friction and wear take place during work of caprone with grease. The Card 2/3

"APPROVED FOR RELEASE: 06/15/2000 **建筑,只要是建筑的设计的设计,但是是一个人的企业的企业的企业,但是一个人们**

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8/145/60/000/003/008/010 D221/D301

Comparative data on antifrictional

authors conclude that caprone is the most suitable for bushes. In the ase of inadequate lubrication, caprone with 3 - 5 % of graphite addition is recommended. There are 5 figures.

ASSOCIATION: Khar'kovskiy institut inzhenerov komunal'nogo stroitel!
stva (Khar'kov Institute of Engineers of Civil Con-

struction)

July 17, 1959 SUBMITTED:

card 3/3

CIA-RDP86-00513R001341610003-2" APPROVED FOR RELEASE: 06/15/2000

ZEMSKOV, P.I., kand.tekhn.nauk, dotsent; POGORELOV, I.D., inzh.

Investigating high-grade cast iron as material for piston rings of motor-vehicle engines. Izv.vys.ucheb.zav.; mashinostr. no.4: 138-147 '62. (MIRA 15:7)

Device for testing the hardness of shafts. Mashinostroitel:
no.5237 My '62. (MIRA 15:5)

(Rockwell test)

ZEMSKOV, P.I., dotsent, kand.tekhn.nauk; POGORELOV, I.D., insh.

Making distributing shafts of gray iron. Isv. vys. ucheb. sav.;
mashinostr. no. 10:106-114 '60. (MIRA 14:1)

1. Khar'kovskiy kommunal'nyy institut.

(Tractors--Engines)

POGORELOV, I.D., inzh.; ZEMSKOV, P.I., Inzh.

Rockwell hardness testing press for crankshaft journals.
Metalloved. i term. obr. met. no.7:57 Jl '61. (MIRA 14:6)

1. Khar'kovskiy zavod "Serp i molt."

(Cranks and crankshafts—Testing)

(Hardness—Testing)

ZEMSKOV, P.I., kand.tekhn.nauk, dotsent; POGORELOV, I.D., inzh.; BALYUK,

B.K., inzh.

Investigating the performance of engine bimetallic bushings made with
ASM alloy. Izv.vys.ucheb.zav.; mashinostr. no.ll:79-83 '61.

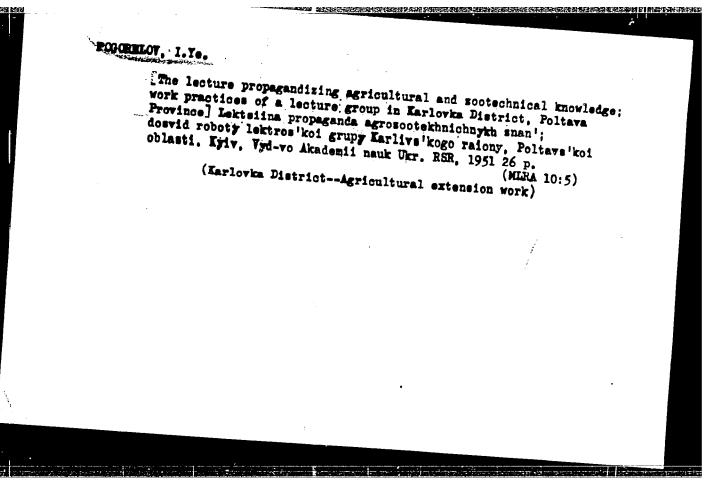
1. Khar'kovskiy institut inzhenerov kommunal'nogo stroitel'stva.

(Aluminum alloys--Testing)

POGORELOV, I.M.

And our new objectives shall also be fulfilled. Avtom. telem. i sviaz' 8 no. 3:26-28 Mr '64. (MIRA 17:5)

l. Nachal'nik Pologskoy distantsii signalizatsii i svyazi Pridneprovskoy dorogi.



DYDDYURA, A.G., starshiy inzhener-konstruktor; POGOREIOV, I.Ye., inzhener-konstruktor.

Fast PR-10 hammer drills. Gor. zhur. no.4:6-7 Ap 57. (MLRA 10:5)

的影用國

- / - /5

DYADYUHA, A.G., inzh.-konstruktor; POGORRIOV, I.Ye., inzh.-konstruktor.

Fast FT-29m telescopic hammer drills. Gor. zhur. no.2:52-53 F '58,

1. Zavod "Kommunist."

(Rock drills)

E KRIEF

POGORELOV. M.S. kandidat ekonomichnikh nauk.

Gertain problems in improving the economics of state farms.

Hauk.zap.Kiev.un. 15 no.9:167-177 '56. (MIRA 10:7)

(State farms)

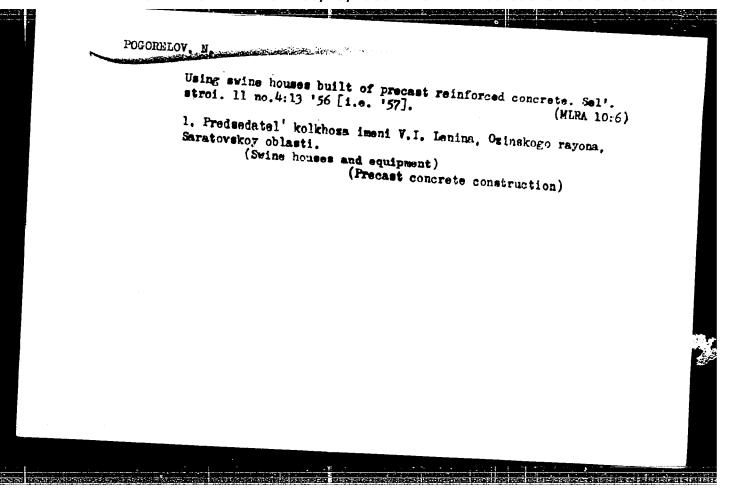
POGORELOV, M.Ye.

Obtaining of high-titer precipitating sera. Zhur. mikrobiol., epid. i immun. 42 no.7:139-144 Jl '65. (MIRA 18:11)

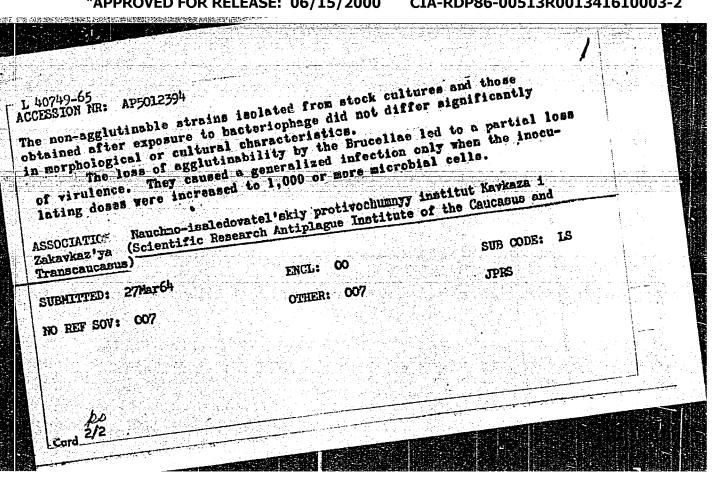
1. II Moskovskiy meditsinskiy institut imeni N.I. Pirogova.

LONIYA, Ya.; POGORFIOV. N.; MILOVIDOVA, N.D., redaktor; TISHEVSKIY, I.I., tekhnicheskiy redaktor

[Good yields of tea leaves] Vysokie urozhai chainogo lista. [Moskva. Izd-vo Ministerstva sel'skogo khoziaistva SSSR, 1955] folder (4 p.) (MIRA 10:1)



L 40749-65 ENT(1)/ENA(1)/ENA(b)-2 ACCESSION NR: AP5012394 UR/0016/64/000/012/0094/0098 AUTHOR: Pogorelov, N. A. TITLE: Variability of Brucella, I. Preparation and description of non-agglutinable SOURCE: Zhurnal mikrobiologii, epidemiologii i immunobiologii, no. 12, 1964, 94-98 TOPIC TAGS: brucellosis, immunology, serum, microbiology ABSTRACT: The aim of the author was to isolate from stock cultures Brucella strains that could not be agglutinated by the usual antibrucella sera, and to obtain similar variants by subjecting the cultures to factors that induce variability. About 11% of the 203 cultures studied proved to be non-agglutinable. Prolonged cultivation of three species of Brucellae on media with immune sera produced mucous forms of colonies that retained the capacity for agglutination with specific 0 serum and regained their original form after 3-4 transfers to ordinary culture media. prolonged cultivation of Brucella cultures on yolk media (38 transfers every 4-5 days) likewise failed to cause a loss of agglutinability. Similarly, Non-agglutinable variants were obtained on the 5th day of cultivation on liquid culture media to which Brucella bacteriophage was added. Card 1/2



ACC NR: AP6032246 SOURCE CODE: UR/0016/66/000/009/0070/0074

AUTHOR: Taran, I. F.; Pogorelov, N. A.; Kulikova, G. G.; Kutsemakina, A. Z.; Rudnev, M. M.; Nelyapin, N. M.; Rudneva, V. A.; Suvorova, A. Ye.

Scientific

ORG: Stavropol' branch, "Microbe" Antiplague Research Institute (Stavropol'skiy

filial, Nauchno-issledovatel'skogo protivochymnogo instituta "Mikrob")

TITLE: Brucellosis cultures isolated from rodents and their ectoparasites

SCURCE: Zhurnal mikrobiologii, epidemiologii i immunobiologii, no. 9, 1966, 70-74

TOPIC TAGS: printing, militarescuth, epidemiology, disease vector, rodent,

parasite, animal disease, tularemia, brucellosis

ABSTRACT: Twenty-eight brucella cultures were isolated from wild rodents, their ectoparasites and from domestic swine during a study of the effects of tularemia vaccination and infection upon brucella penetration. Bacteriological as well as phage typing methods were used in identifying the individual strains. There was no difference in cultures isolated from wild and domestic animals. Prolonged passaging of brucella cultures in mice vaccinated with

rolonged passaging of bracetta tultures in mitter to tulture in tularemia strains tularemia vaccine and infected with virulent tularemia strains

Card 1/2

UDC: 576.851.42

	did not alter their cultural or biochemical properties. Transmission of brucella from wild rodents to the domestic hogs used in this study was established. [WA-50; CBE No. 12]								
UB CODE:	06/ S	UBM DATE:	29Jan66/	ORIG REF:	004/				
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ACC NR: AP6032246 SOURCE CODE: UR/0016/65/000/009/0070/0074

AUTHOR: Taran, I. F.; Pogorelov, N. A.; Kulikova, G. G.; Kutsemakina, A. Z.; Rudnev, M. M.; Nelyapin, N. M.; Rudneva, V. A.; Suvorova, A. Ye.

ORG: Stavropol' branch, "Microbe" Antiplague Research Institute (Stavropol'skiy filial, Nauchno-issledovatel'skogo protivochymnogo instituta "Mikrob")

TITLE: Brucellosis cultures isolated from rodents and their ectoparasites

SOURCE: Zhurnal mikrobiologii, epidemiologii i immunobiologii, no. 9, 1966, 70-74

TOPIC TAGS: medicine, medicine, medicine, epidemiology, disease vector, rodent, parasite, animal disease, tularemia, brucellosis

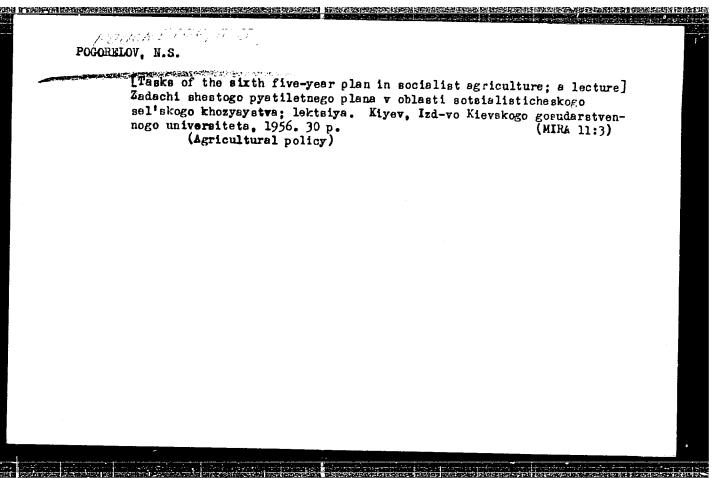
ABSTRACT:

Twenty-eight brucella cultures were isolated from wild rodents, their ectoparasites and from domestic swine during a study of the effects of tularemia vaccination and infection upon brucella penetration. Bacteriological as well as phage typing methods were used in identifying the individual strains. There was no difference in cultures isolated from wild and domestic animals. Prolonged passaging of brucella cultures in mice vaccinated with tularemia vaccine and infected with virulent tularemia strains

<u>Card</u> 1/2

<u>UDC: 576.851.42</u>

ACC NR:	AP6032246	· · ·
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SUB CODE:	06/ SUBM DATE: 29Jan66/ ORIG REF: 004/	.
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CHUKHNO, A.A.; POGORELOV, M.S.[Pogorislov, M.S.] kand.ekon.nauk, red.

[Wages under socialism; a lecture] Zarobitne plats pry sotsializmi; lektsiis, [Kyiv] Vyd-vo Kyivs'koho derzh.univ.im. T.H.Shevchenka, 1957. 28 p.

(Wages)

POGORELOV, Nikolay Semenovich, kand.ekon.nauk; PANCHENKO, N.F., dotsent, otv.red.; OERMAN, W.A., red.; KHOKHANOVSKAYA, T.I., tekhred.

[State farms as the highest form of agricultural organization under socialism] Sovkhozy kek vyashaia forms organizatsii sel'skogo khoziaistva pri sotsializme. Izd-vo Kievskogo gos. univ., 1958. 133 p.

(State farms)

(State farms)

USSR/Cultivated Plants - Subtropical. Tropical.

И.

Abs Jour

: Ref Zhur - Biol., No 10, 1958, 44356

Author

: Madaraya, G.B., Pogorelov, M.V.

Inst

: All-Union Institute for Tea and Subtropical Cultures.

Title

: On the Problem of the Creeping Culture of the Lemon and

of the Orange.

Orig Pub

: Byul. Vses. n.-i. in-ta chaya i subtrop. kul'tur, 1957.

No 1, 108-114, 109-115

Abstract

The known methods of protecting lemons and oranges grown in bush form on the Black Sea Coastal zone of Caucasus (hilling, covering, warming) do not grarentee these varieties from the serious winter damage. The Sukhum affiliate of the Institute recommends growing Lemons and oranges in the ground-cover form with the use of group cove-

rings with three-layer gauze. This method secures

Card 1/2

NADARAYA, G.B., doktor biologicheskikh nauk; POGORELOV, N.V., kand.sel'skokhozyaystvennykh nauk

Spreading culture of lemon and orange. Biul. VNIICHISK no.1:109-115 157. (MIRA 15:5)

(Lemon) (Orange)

POGORELOV, 0. [Pohorielov, 0.], deystvitel'nyy chlen AN UkrSSR

One more application of geometry. Nauka i zhyttia 11
no.3:14 Mr '62. (MIRA 15:8)

1. Chlen-korrespondent AN SSSR, zaveduyushchiy otdelom geometrii
Fiziko-tekhnicheskogo instituta nizkikh temperatur AN UkrSSR.

(Mechanics, Applied) (Envelopes (Geometry))

ZEMSKOV, P.I.; POGORELOV, P.D.

Devices for measuring the hardness of control rod and crankshaft in a Rockwell press. Zav.lab. 28 no.3:366-367 '62. (MIRA 15:4)

1. Khar'kovskiy zavod "Serp i molot". (Rockwell test)

Device for measuring the hardness of a crankshaft. Izv.vys.uchebzav.; mashinostr. no.7:177 '61. (MIRA 14:9)

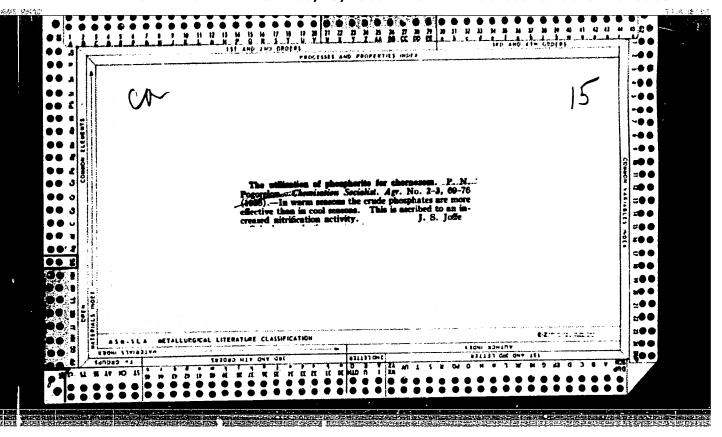
L. Khar'kovskiy institut inzhenerov kommunal'nogo stroitel'stva. (Hardness--Measurement)

POGORFLOW, P.F.

BARSUKOV, H.I., kand.sel. skokhozysystvennykh nauk; KIZYURIN, A.D., doktor sel'skokhozysystvennykh nauk; BORINEVICH, V.A., kand.sel'skokhozysystvennykh nauk; BORMUSOVA, S.N., agronom; VERMENICHEVA, H.D., kand. sel'skokhozyaystvennykh nauk; GESHELE, E.E., doktor biol. nauk; GOROKHOV, G.I., kand sel'skokhozyaystvennykh nauk; GUBKIN, S.M., kand. veterinarnykh nauk; YELYKOVA, L.I., kand.sel'skokhozyaystvennykh nauk; KOTT, S.V., doktor biol. nauk; KOCHKINA, V.A., agronom; LAMBIN, A.Z., doktor biol.nauk; LKBEDEVA, Ye.M., agronom; MAYBORODA, MAIAKHOVSKIY, A.Ya., doktor sel'skokhozyaystvennykh nauk; MAYBORODA, N.M., kand. sel'skokhozyaystvennykh nauk; MAYDANYUK, A.E., zootekhnik; OVSYALHIKOV, G.Ye., kand.sel'skokhozyaystvennykh nauk; PETRO7, F.A., kand biol nauk; POGORELOV P.P., agronom; POLKOSHNIKOV, M.G., dotsent; RENARD, G.K., kand. sel skokhozyaystvennykh nauk; RUCHKIN, V.N., prof.; SADYRIN, M.M., kand.sel'skokhozyaystvennykh nauk; TOBOL'SKIY, V.YA., vetvrach; TYAZHEL'NIKOV, S.J., kand.sel'skokhozyaystvennykh nauk; UKHIN, I.I., kand.sel'skokhozyaystvennykh nauk; FEDOROV, G.V., kand.sel'skokhozyaystvennykh nauk; CHIRKOV, D.I., zootekhnik; TSINGOVATOV, V.A., prof.; SHVETSOVA, A.H., kand.sel'skokhozyaystvennykh nauk; SHEVLYAGIN, A.I., kand.sel'skokhozyaystvennykh nauk; SEMENOVSKIY, A.A., red.; GOLUBINSKAYA, Ye.S., red.; NECHAYEVA, Ye.G., red.; PERESYPKINA, Z.D., tekhnicheskiy red.

[Siberian agronomist's reference manual] Spravochnais knigs agronoma Sibiri. Moskva, Gos. izd-vo sel'khoz. lit-ry. Vol.2. 1957. 839 p. (Siberia--Agriculture)

OGORE	LOV, P.F.
NUMBEY Alemey	: Ursa : Gultivated Flanto, Fruits, Bermies, Mats, Tes.
ps, over.	: FZhBiol., Na. 4,1959, No. 15794
umboc Pst. The	: Poserview, P.S. : Siberian Sci.Res.Inst.of Agriculture : Creeping Bush Form of Semi-cultivated Fruit Trees.
mio. PVI.	. V ob.: Obrazia i fornirovanive plodovyk corevinav. Baranul, 1057, 106-107
TOA MEEA	According to the observations of the Siberian scientific research institute of agriculture, in the conditions of the Omskaya oblast, the trunk as well as the skeletal branches of a number of semi-cultivated sorts, formed in the open growing form with 30 to 40 cm trunks are often impaired by frosts and burns. A trial of the property form suggested by 1.D. Twosbell-ikey gialded conditions.
Cords	**************************************



AKAMSIN, G.; POGORELOV, V.

First All-Russian flour milling exhibition. Muk.-elev. prom. 30 no.3:31 Mr '64. (MIRA 17:4)

1. Mel'nichnyy kombinat, Kaluga.

POGORELOV, V. A.

"Quasi Geodesics on a Convex Surface." Sub 5 Mar 47, Moscow Order of Lenin State U imeni M. V. Lomonosov

Mssertations presented for degrees in science and engineering in Moscow

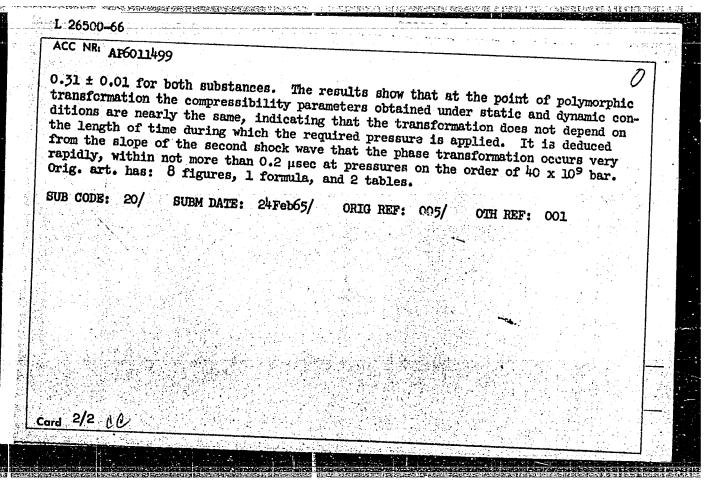
SO: Sum No. 457. 18 Apr 55

POGORELOV, V. A. Cand. Physicomath. Sci.

Dissertation: "Quasi-Geodesics on a Convex Surface". Moscow Order of Lenin
U. imeni M. V. Lomonosov, 5 Mar. 1947.

SO: Vechernyaya Moskva, Mar. 1947 (Project #17836)

L 26500-66 EWP(m)/EPF(n)-2/EWA(h)/EWT(1)/EWT(m)/EWA(d) WW/JD/JG ACC NR. AP6011499 SOURCE CODE: UR/0414/65/000/004/0003/0009 AUTHOR: Dremin, A. N. (Moscow); Pershin, S. V. (Moscow); Pogorelov, V. F. (Moscow) TITLE; Structure of shock waves in KCl and KBr under dynamic compression to 200,000 SOURCE: Fizika goreniya i vzryva, no. 4, 1965, 3-9 TOPIC TAGS: potassium chloride, potassium bromide, shock wave structure, compression shock wave, shock wave velocity, phase transition ABSTRACT: To compare the dynamic compressibility of KCl and KBr with the static compressibility and to obtain additional data on the kinetics of the phase transformation under shock compression, the authors measured the shock adiabat of the substances by an electromagnetic method for measuring the mass velocity of the material behind the front of the shock wave, developed by Ye. K. Zavoyskiy in 1948 (V. M. Zaytsev et al., Dokl. AN SSSR, 1960, v. 132, 1339). In this method the velocity is determined by the voltage induced in a thin aluminum foil moving with the substance and crossing flux lines of an external magnetic field. Most experiments were carried out at pressures of 37.5 x 109 bar in the case of ACL and 45.0 x 209 bar in the case of KBr. The procedure for plotting the velocity diagrams is briefly described. The shock wave velocity was found to be 3.20 ± 0.02 km/sec for KCl and 2.79 ± 0.02 km/sec for KBr. The corresponding mass velocities Card 1/2 UDC: 532.593



FINOGENOV, V.I.; LOBAZNOV, P.G.; POGORELOV, V.G.

Automatic control ov mechanisms in the tail part of the 850 pipe-rolling mill. Sbor. rats. predl. vnedr. v proizv. no.2:27-28 '61. (MIRA 14:7)

1. Azerbaydzhanskiy truboprokatnyy zavod. (Pipe mills) (Automatic control)

CIA-RDP86-00513R001341610003-2 "APPROVED FOR RELEASE: 06/15/2000

AUTHOR: Pogorelov, V.I.

SOV/49-58-8-15/17

TITIE:

Radio Echoes from the Aurora (Radiolokatsionnyye

otrazheniya ot polyarnykh siyaniy)

PERIODICAL:

Izvestiya Akademii Nauk SSSR, Seriya Geofizicheskaya,

1958, Nr 8, pp 1048 - 1051 (ÚSSR)

ABSTRACT:

Radio investigations of the aurora were carried out at Roshchino (ϕ = 60°12', λ = 29°34' E, $\bar{\Phi}$ = 56°35', Λ = 116°47' E) as a part of the IGY programme.

Observations were made round-the-clock on certain days

and during special world intervals at every 00, 15, 30 and 45 minutes/hour of local time. Less systematic observations were made on other days. The maximu observational range of the apparatus was 1 200 km. The maximum

Two types of signals were observed during aurora (Ref 1):

a) stationary or very slowly moving; b) rapidly moving both with increase and decrease of distance.

Signals of type b) ran along the screen once or several times in either direction without any noticeable change in form. Such displacement corresponded to apparent velocities up to 5 000 km sec-1. They seemed to be due to

the reception of radiations from another radiolocation

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SOV/49-58-8-15/17

apparatus working at the same frequency but with a different number of impulses per second. The author goes on to describe the results obtained. distribution of the number n of observed reflections of types a) and b) is shown in Figure 1 for hourly intervals of local time. In the construction of these diagrams, only days with round-the-clock observation were used (one reflection denotes a reflection of any intensity observed during one rotation of the antenna in a horizontal plane). Analysis showed that the time of maximum reflection numbers and of maximum intensities coincided. Weak signals, however, only appeared during times of the maxima in Figure 1. Generally speaking, the variation of intensity with time was the same for both a) and b). Figure 2 shows the distribution of signals a) and b) in azimuth (top of the figure is North). The observed data are averaged over 10 intervals. No real difference was noticed in the azimuths of signals with different intensities, although weak signals of type b) had a maximum only at 20. Figure 2 indicates that the maximum number of reflections of all types occurred at azimuths of about

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SOV/49-58-8-15/17

0° and 20° (the minimum at 10° may well be accidental). Signals of type b) often seemed either similar, or mirror images of type a) signals, The coincidence of their azimuths indicates that both types of reflection are produced in the same regions of increased electronic concentration. However, in many cases, the a) and b) signals are not observed simultaneously or, if simultaneous, with different azimuths. Next, a diagram was constructed of the areal distribution of reflections as a function of distance D and azimuth E. Figure 3 shows the resulting contour lines. The dotted line represents points situated at a height of 100 km on one of the magnetic parallels. It follows that the area of reflection is not distributed in a narrow arc along the parallel, although it is concentrated around it. (The arc-shaped distribution coincides with a magnetic, but not a geomagnetic, parallel) This seems to be a genuine representation not dependent, for example, on height dispersion of the reflecting zones. The analogous diagram given by Kaiser (Ref 2) from observations in Refs 3 and 4 is only obeyed statistically - specific observations

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SOV/49-58-8-15/17

can deviate considerably from the arc-shaped outline. The determination of the co-ordinates of reflecting regions using one radiolocation apparatus is only possible with type a) signals. When the azimuth and angle of inclination are determined satisfactorily, it is difficult to determine the distance with sufficient accuracy to derive the heights involved. It is more satisfactory to use several radiolocation apparati simultaneously. Thus, accepting Chapman's hypothesis (Ref 4) that the reflecting elements are distributed parallel to the magnetic field in places where the magnetic lines of force are perpendicular to the direction of the radiolocator, it is possible (with several crude assumptions) to alculate the angle above the horizon which would be observed at Roshchino. Figure 4 shows the distribution of the number of reflections, n, as a function of the heights, H, of the reflecting regions (obtained from material collected at Roshchino, June-October, 1957). The maximum number of reflections occurs at a height of 120 km (i.e. at about the most intense region of the aurora). Using the geomagnetic field, a different distribution is obtained, which indicates that,

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in the auroral zone, the field differs considerably from the geomagnetic. It follows from Figure 4 that radio reflections occur from regions lower than 100 km which seems unlikely owing to the small electron concentration there. This, also, indicates that the field at these heights is different from that at the surface of the Earth. Inaccuracy in the determination of height is also due, perhaps, to refraction of radio waves in inhomogeneities in the ionosphere. It should be noticed that the hypothesis of similarity between the mechanisms of radio-reflection from meteor trails and from aurora has not yet been fully worked out (Refs 5 and 6). The author thanks V.I. Krasovskiy for his advice. There are 4 figures, and 6 references, 1 of which is Soviet and 5 English.

Card 5/6

"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001341610003-2

Radio Echoes from the Aurora

SOV/49-58-8-15/17

ASSOCIATION:

Akademiya nauk SSSR Institut fiziki atmosfery Roshchinskaya stantsiya Atmospheric Physics, Roshchino station February 13, 1958

SUBMITTED:

1. Aurorae--Radiographic analysis

Card 6/6

SOV/49-58-8-16/17 Martvel', F.E. and Pogorelov, V.I. AUTHORS:

On the Connection Between the Auroral Luminosities TITLE:

and Their Radio Reflections (O svyazi svetimosti polyarnykh siyaniy s radiolokatsionnymiètrazheniyami ot nikh)

Izvestiya Akademii Nauk SSSR, Seriya Geofizicheskaya, 1958, Nr 8, pp 1052 - 1053 + 1 plate (USSR) PERIODICAL:

ABSTRACT:

Radio observations were carried out at Roshchino $(\phi = 60^{\circ}12^{\circ}, \lambda = 29^{\circ}34^{\circ})$ E; $\Phi = 56^{\circ}35^{\circ}, \Lambda = 116^{\circ}47^{\circ}$ E) simultaneously with photographic observations on the aurora (using an automatic, 180 Stoffregen camera). The radial coston of Roshchina and the initial statements of Roshchina and the initial statements. 72 Mc radiolocator at Roshchiro and the initial results

obtained with it are described in Ref 1, whilst the Stoffregen camera is described in Ref 2. After the end of the polar night in August, 1957, the camera was used

on every moonless night during the regular world days

and special world intervals. Owing to the cloudy weather generally prevailing, it was difficult to determine the brightness and type of aurora from the photographs (even for a 20-sec exposure). Hence, to avoid

error, only results from nights which were both moonless and cloudless were used. The photographs were oriented

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SOV/49-58-8-16/17 On the Connection Between the Auroral Luminosities and Their Radio Reflections

> on the geomagnetic pole with East on the right. In figures 1 and 2, the light spots mark each 10° and the arrows represent the azimuth of maximum radio reflection. It is natural to assume that reflection of the 4-metre waves used takes place in the first instance from inhomogeneities in the ionosphere which show maximum electron concentration during aurorae. These are known to be in the sporadic E layer - situated at about the same level as the normal E layer, viz. ~110 km (Ref 3). Using this height and the observed angle of inclination of the radio signals, it should be possible to decide at which point in the sky radio reflection occurs. Figures 1 and 2 show photographs taken on November 26, 1957 and September 22, 1957. Narrow areas have been drawn on them to show where shortwave radio reflections might originate under these It can be seen that the area occupied by aurora is much greater than the reflection area and the brightness of the latter does not coincide with the maximum brightness of the former. Dispersion of the heights of reflection even in the limits of 100 to 200 km could not

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On the Connection Between the Auroral Luminosities and Their Radio Reflections

lead to a substantial change in zenith distance or vertical angular width, since only distances exceeding 500 km were observed at Roshchino (Ref 1). The table gives a comparison of the aurorae and their radio reflections. The heights of the reflecting zones are calculated on the assumption that reflections are produced in directions perpendicular to the manetic lines of force. The aurorae shown in the table covered almost the entire Northern horizon in azimuth and extended as far as and beyond the zenith. The spectral characteristics of the aurorae were normal, although the emission was not observed owing to more intense neighbouring emission. The material obtained at Roshchino leads to the following points: 1) generally speaking, the most intense radio reflections seemed to coincide with clearly defined auroral streamer displays; 2) reflections of large amplitude corresponded to the brighter aurorae - when aurorae were absent, no radio reflections were observed and only few reflections were recorded with weak aurorae; 3) there is a small dispersion (5-10°) between the azimuths of the most

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SOV/49-58-8-16/17 On the Connection between the Auroral Luminosities and Their Radio Reflections

intense parts of the aurorae and the azimuths of the most intense radio reflections. This does not, however, exceed the limits of error and can, in any case, be explained by radiowave refraction in an ionised medium; 4) the dimensions of the radio reflection zones are small compared with the area of sky covered by aurora. The zones coincided approximately with the areas which obeyed Chapman's condition (Ref 4) (i.e. the direction of reflection is perpendicular to the magnetic lines of force). There are 4 references, 2 of which are Soviet (1 translated from English) and 2 English.

Card 4/5

"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001341610003-2

SOV/49-58-8-16/17 On the Connection between the Auroral Luminosities and Their Radio Reflections

ASSOCIATION:

Akademiya nauk SSSR Institut fiziki atmosfery

Roshchinskava stantsiya (Institute of Atmosheric Physics, Roshchino Station)

SUBMITTED:

February 13, 1958

1. Aurorae--Luminescence

Card 5/5

S/169/61/000/002/015/039 A005/A001

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Translation from: Referativnyy zhurnal, Geofizika, 1961, No. 2, pp. 31-32, # 2G237

AUTHOR:

Pogorelov, V. I.

TITLE:

The Connection of Radar Reflections From Aurora With Disturbances of

the Earth's Magnetic Field

PERIODICAL:

V sb.: "Spektr., elektrofotometr i radiolokats. issled. polyarn. siyaniy i svecheniya nochnogo neba". No. 2-3. Moscow, AN SSSR, 1960,

pp. 28-31 (English summary)

TEXT: Results of the comparison of the data of radar reflections from aurora are presented, which were obtained at Roshchino (60.2 n.lat., 29.5 e.long.), with the records of the variations of the magnetic field at Voyeykov (59.9°n.lat., 30.7°e. long.). The observations at Roshchino were conducted at the frequency of 72 Mc with the aid of a radar outfit with a rotating antenna. Because the main direction in which the signals, received at Roshchino, arrive, coincides approximately with the magnetic meridian, the majority of reflections, which are characterized by the distance of 700-750 km, must have arisen at a longitude close that

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S/169/61/000/002/015/039 A005/A001

The Connection of Radar Reflections From Aurora With Disturbances of the Earth's Magnetic Field

of Voyeykov. Therefore, the variations of the magnetic field measured at this station were used for the estimation of simultaneous variations of the field in the reflection zones. The analysis of the results, which were obtained during the period from June 1957 to July 1958, points out the good average correlation of the radio reflections from the aurora with disturbances of the magnetic field. It is ascertained that the radioreflections are chiefly observed during the periods of decreasing horizontal component of the magnetic field (H). The observed distances of reflections are chiefly confined to the limits from 500 to 1,000 km for all values of dH. The results of observations made it possible to determine the distribution of probability of the reflections reception at given values of distance and disturbance of the Earth's magnetic field. The distribution mentioned shows that the increase in the arrival frequency of reflected signals for Δ H <-16 is much sharper than at values of # nearer the values of the quiet field, whereat the possibility is not excluded that the maximum probability of radioreflection reception corresponds to values of Δ H smaller than the observed ones. Obviously, the decrease of the H-component of the magnetic field at the Earth's surface corresponds to such a variation of the field in the ionosphere, which

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S/169/61/000/002/015/039 A005/A001

The Connection of Radar Reflection From Aurora With Disturbances of the Earth's

shifts the region, geometrically favorable for the formation of reflections, towards a zone of the highest electron concentration. The calculation of the altitude of a signal reflection should apparently be conducted reasonably from the condition of the perpendicularity of the ray to magnetic lines of force, assuming approximately that the permanent part of the field at the points of reflections is equal to its value at the Earth's surface. In case of an altitude of reflection, decreasing with decreasing H, the observation data would point out the increase of the mean electron concentration toward the altitudes smaller than 120-130 km. This seems to be probable if taking into account the situation of the sporadic E-layer during magnetic disturbances.

L. Yerasova

Translator's note: This is the full translation of the original Russian abstract.

Card 3/3

3,1810 9,9000 (4KD 1036)

\$/169/61/000/003/012/022 A005/A005

Translation from: Referativnyy zhurnal, Geofizika, 1961, No. 3, pp. 23-24, # 3G220

AUTHOR:

Pogorelov, V. I.

TITLE:

Concise Survey on the Results From Radar Observations at the Roshchino

Station

PERIODICAL: V sb.: "Spektr., elektrofotometr. i radiolokats. issled. polyarn.

siyaniy i svecheniya nochnogo neba". No. 2-3. Moscow, AN SSSR, 1960,

pp. 32-36 (English summary)

TEXT: Results are presented from radar observations of polar lights at a frequency of 72 Mc, which were carried out at Roshchino (near Leningrad) from July 1957 to March 1958. The directivity pattern of the radar antenna has a main lobe under an angle of 10° with respect to the horizon. The inclination angle of the lobe can be varied within small limits and is adjusted for observations equal to the angle of most probable directions of incidence of the reflected signals. The statistical analysis of the reflections shows that the maximum number of reflections refers to the distance of 700 km and the aximuth 10° e.long. (0° corresponds to the direction to geographical North). The distribution of the echoes in

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S/169/61/000/003/012/022 A005/A005

Concise Survey on the Results From Radar Observations at the Roshchino Station

distance depends on the 24-hour time. The widening of the azimuth and distance ranges proceeds at the instance of appearance of intense reflections; hereat the duration of their observations increases. If it is taken into account that the magnetic declination of Roshchino amounts to $\approx +6^{\circ}$, and the angle between the magnetic declination of Roshchino amounts to $\approx +6^{\circ}$, and the angle between the geomagnetic and geographic meridian is about $\approx -21^{\circ}$, so it is necessary to assume, from the standpoint of the Chapman theory, for the explanation of the obtained results that the magnetic field in the zone of occurrence of reflection regions little differs from the field at the Earth's surface and, consequently, is sharply distinct from the geomagnetic one. The reflections tend to concentration in directions corresponding to the Chapman condition in case that the magnetic field at the reflection altitudes has a structure which approximates not to the geomagnetic field, but to the magnetic one near the Earth's surface. The data from observations of reflections arriving from a defined azimuth made it possible to obtain the distribution of the reflecting regions over the altitudes. The altitude of every region was determined from the equation (r.F) = 0 which expresses the perpendicularity condition of the vector r of the wave propagation direction and the directivity vector of the magnetic field F of Earth at the reflection point.
L. Yerasova
Translator's note: This is the full translation of the original Russian abstract. Card 2/2

s/049/60/000/007/002/003 E032/E514

9,9000 AUTHOR:

Pogorelov, V. I.

Comparison of Parameters of Radio Echoes

Magnetic Field Variations During Auroras TITLE:

PERIODICAL: Izvestiya Akademii nauk SSSR, Seriya geofizicheskaya, 1960, No.7, pp.1082-1085

The present paper is based on results of 4 m observations obtained at the Roshchino Station ($\phi = 60^{\circ}.2$; $\lambda = 29^{\circ}.6$) and magnetic measurements at Voyeykovo ($\varphi = 59^{\circ}.9$; A = 30°.7) carried out largely during the I.G.Y. Measurements were made of the range and the azimuths of regions of ionization which appear during magnetic storms and in polar auroras. The maximum range which could be determined with the apparatus was 1200 km. The measurements were carried out at intervals of 15 min during special and regular intervals as a part of the I.G.Y. programme. An attempt was made to obtain a quantitative comparison between parameters of radio echoes and variations in the horizontal component of the Earth's magnetic field. Variations in the vertical component were not taken into account.

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S/049/60/000/007/002/003 E032/E514

Comparison of Parameters of Radio Echoes with Magnetic Field Variations During Auroras

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It was found that the magnetic field at an altitude of about 100 km is considerably different from the dipole field and approximates to the magnetic field at the Earth's surface. The present results tend to support the Chapman (Ref.3) hypothesis (wave vector perpendicular to the Earth's magnetic field vector) rather than the Kaiser hypothesis (Ref.1) (reflection zones associated with a narrow band of geomagnetic latitudes). Diurnal changes in the mean reflection ranges can be explained by diurnal variations in the magnetic field. In the case of sporadic disturbances, the effect of variations in the magnetic field on radio echoes can be explained by assuming that the reduction in the H-component leads to a displacement of the region which is geometrically most favourable for producing echoes to regions with larger values of anomalous For an undisturbed field, the Chapman condition for ranges exceeding 800 km for the Roshchino Station corresponds to altitudes greater than 110 km. However, if the reduction in the H-component on the Earth's surface during Card 2/3

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Comparison of Parameters of Radio Echoes with Magnetic Field Variations During Auroras

sporadic disturbances is also accompanied by a reduction in this component at an altitude of 110 km, then one should observe, and it was indeed observed, a rapid increase in the probability of echoes from larger ranges. A typical graph of the probability of reflection P as a function of the H-component for a sporadic disturbance of the field during polar auroras is shown in Fig. 3 (r = 700-800 km). Fig. 4 shows the mean azimuths of echoes as functions of disturbances in the H-component. Acknowledgments are expressed to V. I. Krasovskiy There are 4 fig.

There are 4 figures and 7 references: 2 Soviet and 5 English. ASSOCIATION: Akademiya nauk SSSR Institut fiziki atmosfery

(Academy of Sciences USSR, Institute of Physics of the Atmosphere)

SUBMITTED: September 25, 1959

Card 3/3

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s/563/60/000/208/001/001 1034/1234

AUTHOR:

Pogorelov, V.I.

TITLE:

Local resistances in the laminar flow of liquids

SOURCE:

Leningrad. Politekhnicheskiy institut. Trudy.

no. 208. Moscow, 1960. Gidrotekhnika, 10-20

TEXT: The article reviews recent papers by seven Soviet authors on the determination of the coefficients of local resistance in the laminar flow of liquids. The article proceeds to describe experimental work carried out by the author in 1952/53 with different oils for determining the coefficients of local resistance in installations incorporating valves. The apparatus

Card 1/2

s/563/60/000/208/001/001 I034/I234

Local resistances ...

used is described and the results for different extents of valve opening are given and discussed. The conclusions arrived at are: 1. Head losses due to local resistances are proportional to the first power of the velocity, while the coefficient of local resistance is inversely proportional to the Reynolds number. 2. The equivalent length of pipe conduit depends only on the nature of the local resistance and does not depend on the viscosity of the liquid. 3. The critical value of the Reynolds number in the presence of local resistance becomes considerably reduced and, for a valve apparatus with lateral outlet, stands at Reor = 100.

4. In the transition zone, the character of the function $\xi = f(Re)$ depends on the nature of the local resistance. There are 9 figures.

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3/203/61/001/005/010/028 31805 A006/A101

9.9847

AUTHOR:

On the effect of magnetic variations on the reflection of radio-Pogoreloy, V.I.

TITIE:

waves by ionization zones of aurora polaris

Geomagnetizm i aeronomiya, v. 1, no. 5, 1961, 687 - 694 The author studied the effect of variations of a magnetic field on

TEAT:

Scattering of radiowaves by heterogeneities of the Escattering of radiowaves by heterogeneities within a frequency range of 20 _ 800 of radar sounding of aurora nolaris regions within a frequency range of 20 _ 800 scattering of radiowaves by neterogenesties of the solution and sequency range of 20 - 800 of radar sounding of aurora polaris regions within a frequency range of the solution of the shown that by taking into account this phenomenon it is shown that by taking into account this phenomenon. megacycles. It is shown that by taking into account this phenomenon, it is possible to explain the nature of the frequency dependence of the coattening feators. PERIODICAL: sible to explain the nature of the frequency dependence of the scattering factor, Since to explain the nature of the frequency dependence of the Scattering latter. Studying the effect of the intensity of magnetic disturbance on the width of ing the effect of the intensity of magnetic disturbances on the width of the reflection zone it was found that the latter increased at a greater disturbance The cheromenon is confirmed by experimental data. The assumption of the reflection zone, it was found that the latter increased at a greater disturbance. The phenomenon is confirmed by experimental data. The asymmetry of the reflection band observed is possibly due to variations of the magnetic field. One of the band observed is possibly due to variations is that if the transmitter and the regularities regularities regularities regularities regularities regularities regularities regularities. the regularities revealed by radar investigations is that if the transmitter and the regularities revealed by radar investigations are combined the reflections are combined the reflections are combined. the regularities revealed by radar investigations is that if the transmitter and the receiver of the locator are combined, the reflections arrive from zones which

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On the effect of magnetic variations ...

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are concentrated around a curve in the space. This curve is determined by equamagnetic field in the reflection point. r. r. are radius-vectors of the reflection. magnetic field in the reflection point, r, rl are radius-vectors of the reflection points of the locator. The author thanks V.M. Bovsheverov and V.I. Tatarskiy for their assistance. There are 1 figure and 14 references: 6 Soviet-bloc and 8 non-Soviet-bloc.

ASSOCIATION: Institut fiziki atmosfery AN SSSR (Institute of Physics of the Atmo-SUBMITTED:

Card 2/2

s/203/62/002/001/007/019 1023/1223

AUTHOR:

Pogorelov, V.I.

TITLE:

Fluctuations of electron density in ionization zones

of auroras

Geomagnetizm i Aeronomiya, v.2, no.1, 1962, 68-70 PERIODICAL:

TEXT: The root-mean-square (r.m.s.) value of electron density fluctuations in the aurora region is calculated for different correlation function. For a correlation function of the type (X; - coordinate differences; L; - constants,

different for different i because of the anisotropy of the electron density), $(\triangle^{N^2})^{1/2} = (6-15) \cdot 10^4$, electrons/cm³. For a correlation function of the type exp $\left\{-\left(\sum_{i} x_i^{1/2}\right)^{1/2}\right\}$, $(\triangle^{N^2})^{1/2}$

= (4-10) x 104 electrons/cm3. The r.m.s. values were calculated by using experimental data obtained at Roshchino (60,20N, 29.60E).

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FAPPROVED FOR RELEASE: 06/15/2000
The fluctuations of electron density...

The fluctuations of the magnetic field can change the value of

ASSOCIATION:

Institut Fiziki atmosfery Akademii nauk SSSR (Institute of Atmospheric Physics, Academy of Sciences USSR)

SUBMITTED:

October 25, 1961

3,1810

AUTHOR: Pogorelov, V. I. TITLE:

S/203/62/002/002/007/017

1046/1246

Mechanism of auroral form element formation PERIODICAL: Geomagnetizm i aeronomiya, v. 2, no. 2, 1962, 275-285

TEXT: Analyzing the electrostatic oscillations in a nonquasilinear electron-proton stream moving along an external uniform magnetic field (cylindrical and linear symmetry), the author arrives at the spatial distribution of small oscillations of the stream parameters and at the corresponding dispersion equation. All phenomena considered in the work are governed by the equations of the drift theory. The most stable configurations of the auroral corpuscular streams that emerge from the results can account for the formation of the particular elements of the auroral froms.

ASSOCIATION: Institut fiziki atmosfery AN SSSR (Institutes of Atmospheric Physics AS USSR) SUBMITTED:

Card 1/1

3.2436 3.1810 AUTHOR:

Pogorelov, V. I.

ևկկ50 **\$/203/62/002/006/005/020** A001/A101

TITLE:

The stationarity of corpuscular streams corresponding to most often occurring shapes of auroras

PERIODICAL: Geomagnetizm i aeronomiya, v. 2, no. 6, 1962, 1076 - 1079

TEXT: The author analyzes the causes of origination of most often occurring auroral shapes, considered as focused streams. Since the main features of a stream configuration are fixed in the process of its motion along the Earth's magnetic field at an altitude of about 1,000 km, the state of the stream medium law of conservation of the number of particles, and the law of changes of partial pressure, neglecting collisions of particles. No restriction is imposed on the type of particles, although the streams under investigation are mainly composed of protons and electrons. The system of coordinates is selected in such a way and H₁ of the geomagnetic field. Then the problem of determining a stationary

The stationarity of corpuscular streams...

S/203/62/002/006/005/020 A001/A101

shape of the stream is reduced to finding the conditions under which the vector V, characterizing the concentration and velocity of the components of the medium, has a corresponding orientation at each point of the plane perpendicular to axis Z. It was found that conditions necessary and sufficient for the stream to be stationary are the following: 1) R₁ = 0, 2) R₂ = const, R₃ being curvature of isolines of the stream cross section. In the first case, every characteristic of the stream depends of coordinate x₁ only; in the second case isolines are circles with the same center, i.e., the stream has a cylindrical symmetry. These conclusions coincide with observational evidence that the most stable shapes of auroras are individual arcs and individual rays. All other shapes are subject to deformations when intensities and velocities of streams vary, which occurs always in auroras.

ASSOCIATION: Institut fiziki atmosfery AN SSSR (Institute of Physics of Atmosphere AS USSR)

SUBMITTED: August 3, 1962

Card 2/2

OSIPOV, Petr Yegorovich, kand. tekhn. nauk; YAKOVLEV, G.D., kand. tekhn. nauk, dots. st. nauchn. sotr., retsenzent; DMITRIYEV, Yu.Ya., dots., kand. tekhn. nauk, retsenzent; POGORELOV, V.I., red.

[Hydraulics and hydraulic machinery] Gidravlika i gidravlicheskie mashiny. Izd.2., perer. i dop. Moskva, Lesnaia promyshlennost', 1965. 362 p. (MIRA 18:7)

1. Kafedra vodnogo transporta lesa Vsesoyuznogo zaochnogo lesotekhnicheskogo instituta (for Yakovlev).